Productproperties

Adhesive Properties	Standard	Macromelt® OM 652/657	Macromelt® OM 633/638	Macromelt® OM 641/646	Macromelt® OM 673/678	Macromelt® OM 710
Color		Amber/black	Amber/black	Amber/black	Amber/black	Amber
Chemical Base		Polyamid	Polyamid	Polyamid	Polyamid	Polyamid
	Thermal Properties					
Application temperature [°C]	*	- 40 / + 100	- 40 / + 130	- 40 / + 130	- 40 / + 140	- 20 / + 140
Glass transition temperature [°C]	DSC 2. Lauf	-45	-36	-35	-45	-10
Cold flexibility [°C]	ASTM D3111	-50	-30	-40	-40	-20
Temperature stableness [°C]	Henkel Methode HM 11	125	155	155	165	160
Softening point [°C]	ASTM E 28	155	175	175	185	170
Injection temperature [°C]		180-230	200-240	200-240	210-240	200-240
Thermal expansion coefficient [1/K]	PVT (50-80)°C	$5x10^{-4}$	$5x10^{-4}$	$5x10^{-4}$	$5x10^{-4}$	
Flammability	UL 94	V0	V0	V0	V0	
	Mechanical Properties					
Density [g/cm3]	DIN 53479	0,98	0,98	0,98	0,98	1,1
Shore-A-hardeness	DIN 53505	77	90	92	90	-
Shore-D-hardeness		-	-	-	-	40
Tensile stress at yield [N/mm2]	DIN 53455	2,6	4,5	5	5,1	9
Tensile strength at rupture [N/mm2]		2,7	5,2	9	5,6	20
Elongation at rupture [%]		400	400	700	400	600
	Electrical Properties					
Dielectric constant [1kHz]	VDE 0303 Teil 4	5 - 7	5 - 7	5 - 7	5 - 7	
Volume resistivity [Ω cm]	VDE 0303 Teil 3	10^{12}	10^{13}	10^{13}	10^{12}	
Dielectric strength [kV/mm]	VDE 0303 Teil 2	~20	~20	~20	~20	~20
	Application Properties					
Viscosity bei 180°C [mPa s]	ASTM D 3236	9500/8600	-	-	-	-
Viscosity bei 190°C [mPa s]		7000/6500	-	-	-	-
Viscosity bei 200°C [mPa s]		5400/4900	5000	-	-	19000
Viscosity bei 210°C [mPa s]		4100/3700	3700	7000	3000/3300	13000
Viscosity bei 220°C [mPa s]		-	2900	5000	2200/2500	9000
Viscosity bei 230°C [mPa s]		-	2300	3500	1600/1900	6100
Injection temperature [°C]		180-230	200-240	200-240	210-240	200-240
	Water Absorption					
Water Absorption [%]	DIN 53495; 24 h, RT	1,4	1	0,8	1	5
*=it depence on the project	DIN 53495; 72h, 85°	4,8	4,5	4	4	-

Information provided herein is based upon our practical knowledge and experience. Due to different materials used as well as to varying working conditions which are beyond our control we strictly recommend to carry out intensive trials as well as consultation of our technical personnel. Any warranty and/or liability shall not be derived from above information.